CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/NMSK/CEMENT/2014-15

Date: 19.06.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. N.M. Shivakuamr**, Contractor, Bangalore.
NAME OF THE WORK	:	Providing RCC road to Doddabommasandra Old Village and Anantharam House Road in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/Vidyaranyapura/PR/104/1/2014-15 Dated: 17.06.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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20/6/14

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Job No.: CTCE/BBMP/W.No.10/NMSK/SAND/2014-15 : 19.06.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N.M. Shivakuamr,** Contractor, Bangalore.

Name of Work : Providing RCC road to Doddabommasandra Old Village and Anantharam House Road in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/104/1/2014-15 Dated: 17.06.2014

Date of Testing : 19.06.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	252	12.60	17.50	82.5	75-100
1.18	437	21.85	39.35	60.7	55-90
600 Micron	465	23.25	62.60	37.4	35-59
300 Micron	498	24.90	87.50	12.5	8-30
150 Micron	156	7.80	95.30	4.7	0-10

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Job No.: CTCE/BBMP/W.No.10/NMSK/AGG/2014-15 : 19.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N.M. Shivakuamr,** Contractor, Bangalore.

Name of Work : Providing RCC road to Doddabommasandra Old Village and Anantharam House Road in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/104/1/2014-15 Dated: 17.06.2014

Date of Testing : 19.06.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25250**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.92	3.92	96.08	95-100
20	16328	64.67	68.58	31.42	30-70
10	5132	20.32	88.91	11.09	10-35
4.75	2534	10.04	98.94	1.06	0-5

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Job No.: CTCE/BBMP/W.No.10/NMSK/CUBE/2014-15

21.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. N.M. Shivakuamr,** Contractor, Bangalore.
Name of the work	: Providing RCC road to Doddabommasandra Old Village and Anantharam House Road in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/104/1/2014-15 Dated: 17.06.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2014	21.07.2014	8.254	475.9	21.15
2	23.06.2014	21.07.2014	8.392	493.7	21.94
3	23.06.2014	21.07.2014	8.427	512.2	22.76

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Job No.: CTCE/BBMP/W.No.10/NMSK/CUBE/2014-15 22.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N.M. Shivakuamr,** Contractor, Bangalore.

Name of the work : Providing RCC road to Doddabommasandra Old Village and Anantharam House Road in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/104/1/2014-15 Dated: 17.06.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2014	22.07.2014	8.379	519.3	23.08
2	24.06.2014	22.07.2014	8.153	485.9	21.60
3	24.06.2014	22.07.2014	8.264	499.7	22.21

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2014	23.07.2014	8.087	470.9	20.93
2	25.06.2014	23.07.2014	8.164	483.9	21.51
3	25.06.2014	23.07.2014	8.283	498.2	22.14

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